

Annals of Plastic Surgery

Volume 27 July–December 1991

Editor-in-Chief	Lars M. Vistnes, MD
Founding Editor	Richard B. Stark, MD
Associate Editors	Gregory M. Buncke, MD, San Francisco, California John Coleman III, MD, Atlanta, Georgia Lawrence B. Colen, MD, Norfolk, Virginia Jay W. Futrell, MD, Pittsburgh, Pennsylvania G. Gregory Gallico III, MD, Boston, Massachusetts Jack P. Gunter, MD, Dallas, Texas Geoffrey G. Hallock, MD, Allentown, Pennsylvania Vincent R. Hentz, MD, Stanford, California Kiyonori Harii, MD, Tokyo, Japan Gottfried Lemperle, MD, Frankfurt, Germany William C. Lineaweaver, MD, San Francisco, California Ernest K. Manders, MD, Hershey, Pennsylvania Raymond F. Morgan, MD, Charlottesville, Virginia Larry S. Nichter, MD, Los Angeles, California Robert M. Oneal, MD, Ann Arbor, Michigan Jeffrey C. Posnick, DMD, MD, Toronto, Ontario, Canada Samuel Stal, MD, Houston, Texas William C. Trier, MD, Seattle, Washington
Editorial Board Consultants	Eugene A. Bauer, MD, Stanford, California Dermatology Bernice Z. Brown, MD, Los Angeles, CA Ophthalmology Paul H. Ward, MD, Los Angeles, California Otolaryngology, Head and Neck Surgery
Editorial Assistant	Patricia McCall Martens, Stanford, California
Publisher	Little, Brown and Company, Boston, Massachusetts
Publishing Staff	Lynne Herndon, Publisher Christine F. Lamb, Executive Editor Sherri Frank, Managing Editor Tracey Solon, Editorial Assistant Fredda Purgalin, Production Manager Anne Orens, Sales and Marketing Manager

Annals of Plastic Surgery. ISSN 0148-7043. Published monthly by Little, Brown and Company, 34 Beacon Street, Boston, MA 02108-1493. Send address changes and subscription orders to Little, Brown and Company, Subscription Department, P.O. Box 2033, Langhorne, PA 19047-9480, (800) 628-4221. Subscription rates per year: Personal subscription, U.S. and possessions, \$115.00; foreign (includes Mexico), \$167.00; Canada, \$129.00; institutional, U.S., \$140.00; foreign, \$190.00; Canada, \$157.00. Special rates for students, interns, and residents per year: U.S., \$75.00; foreign, \$115.00; Canada, \$88.00. Single copies \$10.00 prepaid. In JAPAN: Please contact our exclusive agent: MEDSI, 1-2-13 Yushima, Bunkyo-ku, Tokyo 113, Japan. Subscription rates per year in Japan: individual, ¥35,900; institutional, ¥41,400 (air cargo service only). Bound Volumes: Nos. 26 and 27 will be available in 1991. Contact publisher for more information. Second-class postage paid at Boston, MA, and at additional mailing offices. POSTMASTER: Send address changes to *Annals of Plastic Surgery*, P.O. Box 2033, Langhorne, PA 19047-9480.

Copyright © 1991 by Little, Brown and Company [Inc.] All rights reserved. Except as authorized in the accompanying statement, no part of *Annals of Plastic Surgery* may be reproduced in any form or by any electronic or mechanical means, including information storage and retrieval systems, without the publisher's written permission. Authorization to photocopy items for internal use, or the internal or personal use of specific clients, is granted by Little, Brown and Company, Inc., for libraries and other users registered with the Copyright Clearance Center Transactional Reporting Service, provided that the per-copy fee of \$1.50 is paid directly to the Copyright Clearance Center, 27 Congress St., Salem, MA 01970, for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. The code fee for this journal is 0148-7043/91 \$1.50. This authorization does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.

Annals of Plastic Surgery is indexed in *Index Medicus*, *Current Contents/Clinical Practice*, *Excerpta Medica*, *Biological Abstracts*, *Biosis*, and *Current Awareness in Biological Sciences*.

DISCLAIMER: Advertisements in *Annals of Plastic Surgery* for products, services, courses, and symposia are published with a "caveat emptor—buyer beware" understanding. The Publisher, the Editor, and individual members of the Editorial Board do not imply warranty of products, nor quality, validity, or approval of the educational material offered by such advertisements.



Number 1 July 1991

Original Articles	
N. Bradly Meland, MD, and Rick Weimar, MD	1 Microsurgical Reconstruction: Experience with Free Fascia Flaps
Michael C. Glafkides, MD, and Bryant A. Toth, MD	9 Split Bipedicle Transverse Rectus Abdominis Flaps: Expanding Their Uses in Breast Reconstruction
Geoffrey G. Hallock, MD	21 Recontouring of the Lateral Forehead Using the Temporalis Muscle
Benjamin C. Cohnney, MD, FRCS, FACS, Tamara B. Cohnney, PA, and Vicki A. Hearne, RN	27 Nineteen Years' Experience with Polyurethane Foam-covered Mammary Prosthesis: A Preliminary Report
Richard J. Edwards, MD, Michael J. Im, PhD, and John E. Hoopes, MD	31 Effects of Hyperbaric Oxygen Preservation on Rat Limb Replantation: A Preliminary Report
A. Michael Sadove, MD, and Barry L. Eppley, MD, DMD	36 Microfixation Techniques in Pediatric Craniomaxillofacial Surgery
Ricardo Izquierdo, MD, Samuel W. Parry, MD, Cheryl L. Boydell, BS, MT, and Jeff Almand, BS	44 The Great Auricular Nerve Revisited: Pertinent Anatomy for SMAS-Platysma Rhytidectomy
Gail I. Anderson, BVSc, MSc, Diplomate ACVS, Robin R. Richards, MD, FRCS(C), Bruce Paitich, MD, Michael McKee, MD, and Emil H. Schemitsch, MD	49 Soft-Tissue Blood Flow after Segmental Osteotomy of the Canine Tibia
Vivat Visuthikosol, MD, Suwit Wongbusarakum, MD, Termsak Navykarn, MD, and Arthi Kruavit, MD	56 The Krukenberg Procedure in the Bilateral Amputee after Electrical Burn
Case Reports	
Mark R. Sultan, MD, and John J. Coleman III, MD	61 Salvage of Successful Mandibular Advancement for Obstructive Sleep Apnea Using a Bipedicle Osteocutaneous Scapular Free Flap
Timothy M. Whitney, MD, William C. Lineaweaver, MD, David N. Hing, MD, Bernard S. Alpert, MD, and Harry J. Buncke, MD	66 Sequential Multiple Free Flap Transfers for Reconstruction of Devastating Hand Injuries
Bret R. Baack, MD, and Richard E. Brown, MD	73 Atypical Mycobacterium Soft-Tissue Infection of the Dorsal Radial Wrist: A Possible Complication of Steroid Injection for de Quervain's Disease
Chris R. Crawford, MD, and Richard C. Hagerty, MD	77 Survival of an Upper Lip Aesthetic Complex Using Arterial Reanastomosis Only
Ashok Govila, MS, ChM	80 Restoration of Facial Contour with Deepithelized Pectoralis Major Musculocutaneous Flap

Chul Park, MD, and Keuk Shun Shin, MD	87 Functioning Free Latissimus Dorsi Muscle Transplantation: Anterogradely Positioned Usage in Reconstruction of Extensive Forearm Defect, with Invited Comment by Robert M. Pearl MD
Robert A. Ersek, MD, FACS, and José Alberto Navarro, BA	Gadgetry 93 Transaxillary Subpectoral Placement of Textured Breast Prostheses

Number 2 August 1991

	Original Articles
Andreas Schmidt, MD, Eugen Herndl, MD, and Wolfgang Mühlbauer, MD	97 Increasing the Vascular Pedicle Length in a Free Flap Using a Two-Stage Preliminary Ectopic Transfer
John F. Teichgraeber, MD, Norman H. Rappaport, DDS, MD, and John H. Harris, Jr, MD	103 The Radiology of Upper Airway Obstruction in Maxillofacial Trauma
Mark A. Mandel, MD	110 Treatment of Glabellar Frown Lines Using Silicone Implants
Anne P. Miller, MD, FACS, and Robert E. Falcone, MD, FACS	115 Breast Reconstruction: Systemic Factors Influencing Local Complications
Nazare Franceschi, MD, Kenneth K. Yim, MD, William C. Lineaweaver, MD, Peter P. Siko, MD, Bernard S. Alpert, MD, Gregory M. Buncke, MD, and Harry J. Buncke, MD	121 Eleven Consecutive Combined Latissimus Dorsi and Serratus Anterior Free Muscle Transplantations
Geoffrey G. Hallock, MD	126 Simultaneous Transposition of Anterior Thigh Muscle and Fascia Flaps: An Introduction to the Chimera Flap Principle
Salah Rubayi, MD, FICS, Donald Pompan, MD, and Douglas Garland, MD	132 Proximal Femoral Resection and Myocutaneous Flap for Treatment of Pressure Ulcers in Spinal Injury Patients
M. Stephen Ledbetter, BS, Michael J. Morykwas, PhD, Jeffrey A. Ditesheim, MD, Wesley D. Vander Ark, BS, James R. La Rosee, BA, and Louis C. Argenta, MD	139 The Effects of Partial and Total Amniotic Fluid Exclusion on Excisional Fetal Rabbit Wounds
	Case Reports
Keisuke Imai, MD, Takeo Inoue, MD, Mitsuo Hatoko, MD, Ichiro Tanaka, MD, and Takao Harashina, MD	146 Reconstruction of Two Separated Electrical Burn Ulcers

Barry L. Eppley, MD, DMD, A. Michael Sadove, MD, and Andrew Campbell, BS	152 Obstructive Congenital Epulis in a Newborn
Robert R. Klingman, MD, Patrick Smith, MD, FACS, Brent Stromberg, MD, Jim Valentine, MD, and Mark Goebel, MD	156 Traumatic Hemipelvectomy
W. Thomas Lawrence, MD	Overview 164 In Search of the Optimal Treatment of Keloids: Report of a Series and a Review of the Literature
Jay H. Ross, MD, and Ian T. Jackson, MD, FRCs, FACS	Letters to the Editor 179 Re: Merkel Cell Carcinoma: The Clinical Course
I. Ramon, Y. Ullmann, and I. J. Peled	179 Re: Infection Following Breast Reconstruction
M. A. Trelles, M. Vélez, J. Sánchez, P. Sala, and G. Bell	180 Re: Carbon Dioxide Laser Blepharoplasty—Advantages and Disadvantages
David B. Apfelberg, MD	181 Reply
Edward A. Luce, MD	181 Re: Let Us Proceed with Due Deliberation
David W. Leitner, MD	181 Re: Let Us Proceed with Due Deliberation
Tommy E. Kendall, MD	182 Re: Let Us Proceed with Due Deliberation
Erik Dillerud, MD	182 Re: Abdominoplasty Combined with Liposuction
Frederick M. Grazer, MD, and William A. Mathews, MD	184 Reply
David White, MD	Book Critiques 187 <i>Instructional Courses, Volume II</i> , Edited by Robert C. Russell
Lars M. Vistnes, MD	187 <i>Open Structure Rhinoplasty</i> , Edited by Calvin M. Johnson, Jr, MD, and Dean M. Toriumi, MD
David D. Oakes, MD	188 <i>Rush University Review of Surgery</i> , Edited by S. G. Economou, MD, S. D. Bines, MD, D. J. Deziel, MD, and T. R. Witt, MD
Mark Vierra, MD	189 <i>Maingot's Abdominal Operations, Ninth Edition</i> , Edited by Seymour I. Schwartz and Harold Ellis, with Wendy Cowles Husser
Jonathan N. Zelnik, MD	190 <i>Reduction Mammoplasty</i> , Edited by Robert M. Goldwyn, MD
Thomas J. Francel, MD	191 <i>Plastic Surgery in Paediatrics</i> , by Ian F. K. Muir, MBE, MB, MS (London)
Harvey Zarem, MD	192 <i>The Sophisticated Shopper's Guide to Plastic Surgery</i> , by Richard Jobe, MD

Vincent R. Hentz, MD	192 <i>An Atlas of Surgical Exposures of the Upper Extremity</i> , by Raoul Tubiana, MD, Christopher J. McCollough, MA, FRCS, and Alain Masquelet, MD
	194 Correction
	196 List of Reviewers

Number 3 September 1991

Lars M. Vistnes, MD	Message from the Editor 197 Changes in the Editorial Board
	198 New Members of <i>Annals</i> Editorial Board
C. Song, MBBCh, FRCS (Ed), D. R. Mackay, BDS, MBBCh, FRCS (Glasg and Ed), L. A. Chait, MBBCh, FRCS (Ed), E. K. Manders, MD, and M. A. Kelly, MBBCh	Original Articles 201 Use of Costal Cartilage Cantilever Grafts in Negroid Rhinoplasties
Marcia Kraft Goin, MD, PhD, and Thomas D. Rees, MD, FACS	210 A Prospective Study of Patients' Psychological Reactions to Rhinoplasty
Debby A. Jennings, BA, Michael J. Morykwas, PhD, Walter W. Burns, BA, M. Elizabeth Crook, BS, William P. Hudson, BS, and Louis C. Argenta, MD	216 In Vitro Adhesion of Endogenous Skin Microorganisms to Breast Prostheses
Pietro Berrino, MD, Elisabetta Campora, MD, Stella Leone, MD, Lucia Zappi, MD, Francesco Nicosia, MD, and Pierluigi Santi, MD	221 The Transverse Rectus Abdominis Musculocutaneous Flap for Breast Reconstruction in Obese Patients
Paul L. Schnur, MD, FACS, James G. Hoehn, MD, FACS, Duane M. Ilstrup, MS, Mary J. Cahoy, BA, and Chu-Pin Chu, MS	232 Reduction Mammaplasty: Cosmetic or Reconstructive Procedure?
Takuya Onizuka, MD, Masaharu Ichinose, MD, Yoshiaki Hosaka, MD, Yoshihiro Usui, MD, and Takao Jinnai, MD	238 The Contour Lines of the Upper Lip and a Revised Method of Cleft Lip Repair, with Invited Comment by D. R. Millard, Jr, MD
Shigehiko Suzuki, MD, Yoji Matsushita, MD, Nobuhiko Isshiki, MD, Hiroshi Hamanaka, MD, and Yoshiki Miyachi, MD	253 Salvage of Distal Flap Necrosis by Topical Superoxide Dismutase

Jui-Yung Yang, MD	258	The First Dorsal Metacarpal Flap in First Web Space and Thumb Reconstruction
Peter J. McKenna, MD, Gary S. Lehr, MD, Phyllis Leist, PhD, and Richard E. Welling, MD	265	Antiseptic Effectiveness with Fibroblast Preservation
Alan D. Widgerow, MBBCh, FCS, T. D. Ford, MBBCh, FRCS, and M. Botha, MBBCh	269	Case Reports Burn Contracture Preventing Uterine Expansion
Hung-chi Chen, MD, FACS, Yueh-bih Tang, MD, PhD, Fu-chan Wei, MD, FACS, and M. Samuel Noordhoff, MD, FACS	272	Finger Reconstruction with Triple Toe Transfer from the Same Foot for a Patient with a Special Job and Previous Foot Trauma
Alfredo DaMatta, MD, and Camila Arenas, MD	278	The Upper Arm Fasciocutaneous Flap in Breast Reconstruction
Seth R. Thaller, MD, DMD, and Sandra L. Beal, MD	281	Maxillofacial Trauma: A Potentially Fatal Injury
Melvyn I. Dinner, FRCS, J. Sheldon Artz, MD, and Carol Coleman, RN	284	Gadgetry Aesthetic Mound Reconstruction with the TRAM Flap: Insetting of the Abdominal Island Flap—The Use of the Interposition "C" Flap
David L. Feldman, MD	288	Overview Which Dressing for Split-Thickness Skin Graft Donor Sites?
Andrew G. Roth, MD, Frank Vicari, MD, and G. W. Stevenson, MD	292	Letter to the Editor Re: Rigid Endotracheal Tube Stabilization During Craniomaxillofacial Surgery
Richard J. Siegel, MD	293	Book Critiques <i>Aesthetic Surgery of the Eyelids</i> , by Raul Loeb, MD
Lars M. Vistnes, MD	293	<i>Plastic and Reconstructive Breast Surgery</i> , by John Bostwick III, MD
Stephen A. Schendel, MD, DDS	294	<i>The Chin</i> , edited by J. LeVignac
Lars M. Vistnes, MD	294	<i>Techniques in Aesthetic Rhinoplasty, Second Edition</i> , by George C. Peck, MD
M. Ellen Mahoney, MD	294	<i>Complications in Surgery and Trauma, Second Edition</i> , edited by Lazar J. Greenfield, MD
M. Ellen Mahoney, MD	295	<i>Management of Blunt Trauma</i> , edited by Robert Y. McMurty, MD, and Barry A. McLellan, MD
Eugene S. Kilgore, Jr, MD	296	<i>Controversies in Hand Surgery</i> , edited by Robert J. Neviasser, MD

Number 4 October 1991

<hr/>	
Editorials	
Jack C. Fisher, MD, and Mark Gorney, MD	297 AIDS, Wound Healing, and the Surgeon's Well-being
Geoffrey G. Hallock, MD	299 Logos—Vanity or Venality?
<hr/>	
Original Articles	
Geoffrey G. Hallock, MD	305 Methods for Providing Vascularized Tissue Protection of Microanastomoses
<hr/>	
David E. Berman, MD, FRCSC, John Lettieri, MD, David A. Herold, MD, PhD, James Thorne, PhD, and Raymond F. Morgan, MD	312 Lidocaine Diffusion in Five Tissue Expanders: An In Vitro and In Vivo Study
<hr/>	
David E. Berman, MD, FRCSC, John Lettieri, MD, David A. Herold, MD, PhD, Yuh Feng Lin, MD, and Raymond F. Morgan, MD	316 Steroid and Benzyl Alcohol Diffusion Through Tissue Expanders and Double Lumen Breast Implants
<hr/>	
James M. Nachbar, MD, and William W. Orrison, Jr, MD	321 Validation of Quantification of Breast Implant Capsule Surface Area and Volume Using Magnetic Resonance Imaging
<hr/>	
Michael J. Morykwas, PhD, Jeffrey A. Ditesheim, MD, M. Stephen Ledbetter, BS, Elizabeth Crook, BS, Wain L. White, MD, Debby A. Jennings, BA, and Louis C. Argenta, MD	327 Monodelphis Domestica: A Model for Early Developmental Wound Healing
<hr/>	
Gurhan Ozcan, MD, Saleh Shenaq, MD, and Melvin Spira, MD	332 A New Flap Model in the Rat
<hr/>	
Richard F. Edlich, MD, PhD, Christopher A. Zimmer, BA, Raymond F. Morgan, MD, Daniel G. Becker, MD, John G. Thacker, PhD, Kenneth T. Bellian, BA, and David M. Powell, BA	339 A New Compound-curved Needle for Microvascular Surgery
<hr/>	
Case Reports	
F. Santanelli, MD, and I. Fogdestam, MD, PhD	345 Use of a Vertical Island Flap for Correction of Epispadias
<hr/>	
James C. Grotting, MD, FACS	351 The Free Abdominoplasty Flap for Immediate Breast Reconstruction
<hr/>	
Burton Bentley II, and Paul L. Schnur, MD	355 Synchronous Eruption of Cotton-induced Granulomas 45 Years after Exposure: Report of an Unusual Case
<hr/>	
James C. Yuen, MD, Julio Hochberg, MD, Jose Cruzavala, MD, and Gordon F. Murray, MD	358 Immediate Muscle Flap Coverage for Repair of Cardiac Rupture Associated with Mediastinitis
<hr/>	

John F. Jennings, MD, Robert X. Murphy, Jr, MD, Michael A. Chernofsky, MD, and Raj P. Chowdary, MD	361 Amputation Stump Salvage Using a "Banked" Free-Tissue Transfer
Audrey Ellen Lawson, MD, David Hawtof, MD, Mune Gowda, MD, Ian Jackson, MD, and Geoffrey Osgood, MD	364 Complications of Laser Therapy in the Gynecological Patient: A Review of Four Patients
Jordan D. Sinow, MD, and Bruce L. Cunningham, MD	368 Postmastectomy Brachial Plexus Injury Exacerbated by Tissue Expansion
Tsuyoshi Takato, MD, Hiroyasu Nakai, MD, Yoshiyuki Yonehara, MD, Hidemaru Takeda, MD, Park Susam, MD, Yukie Kitano, MD, and Kougo Kato, DDS	371 Binder's Syndrome: Peculiarities in Japanese Patients
M. M. Al-Qattan, MB, BS, FRCSC, and G. A. Robertson, MPhil, FRCS, FRCSC	382 Acquired Nostril Stenosis
Michael R. Abidin, MD, Kathy Durham, BS, and William C. Dooley, MD	Gadgetry 387 Use of Immediate Postoperative Mastectomy Prostheses
Loren Eskenazi, MD	Book Critiques 389 <i>Atlas of Cutaneous Facial Flaps and Grafts: A Differential Diagnosis of Wound Closures</i> , by Ronald L. Moy, MD
Boyd R. Burkhardt, MD	389 <i>Aesthetic Surgery of the Breast</i> , edited by Nicholas Georgiade, MD, Gregory Georgiade, MD, and Ronald Riefkohl, MD
Joshua Korman, MD	390 <i>Multidisciplinary Management of Cleft Lip and Palate</i> , by Janusz Bardach, MD, and Hughlett L. Morris, PhD
H. Fletcher Starnes, Jr, MD	390 <i>Surgical Endocrinology, Clinical Syndromes, Second Edition</i> , edited by S. R. Friesen and N. W. Thompson
Vincent R. Hentz, MD	391 <i>The Peripheral Nerve: Structure, Function, and Reconstruction</i> , by Julia K. Terzis and Kevin L. Smith
Willard E. Fee, Jr, MD	392 <i>Clinical Anatomy of the Nose, Nasal Cavity and Paranasal Sinuses</i> , by Johannes Lang, MD (translated by P. N. Stell, MD, ChM, FRCS)
Vincent R. Hentz, MD	392 <i>Hand Surgery: Specialty Examination Review</i> , by Michael I. Kulick, DDS, MD
Stephen A. Schendel, MD, DDS	393 <i>Craniofacial Malformations</i> , edited by M. Stricker, J. Van der Meulen, and Raphael R. Mazzola
Willard E. Fee, Jr, MD	394 <i>Lasers in Otolaryngology—Head and Neck Surgery</i> , edited by R. Kim Davis, MD

Number 5 November 1991

Lars M. Vistnes, MD	395	Editor's Introduction to the Brazilian Issue
Ricardo Baroudi, MD	396	Guest Editor's Introduction to the Brazilian Issue Why Aesthetic Plastic Surgery Became Popular in Brazil
Antonio Carlos Abramo, MD, and Alejandro Povedano, MD	398	Original Articles Orbicularis Oris Muscle: A Double-breasted Suture for Its Repair in the Unilateral Cleft Lip
Ricardo Baroudi, MD	404	Flankplasty: A Specific Treatment to Improve Body Contouring
Nelson Heller, MD	421	Subcutaneous Pedicle Flaps in Facial Repair
Luis Montellano, MD	429	Calf Augmentation
Ronaldo Pontes, MD	439	Extended Dissection of the Mental Area in Face-lift Operations
Liacyr Ribeiro, MD, Sidney Muzy, MD, and Affonso Accorsi, MD	457	Omphaloplasty
Carlos Oscar Uebel, MD	476	Micrografts and Minigrafts: A New Approach for Baldness Surgery
Jorge Ishida, MD	488	Nasal Tip Treatment by Lengthening of the Short Columella in Bilateral Cleft Lip Sequelae
Paulo Sergio M. Santana, MD	498	How I Do It Treatment of the Negroid Nose Without Nasal Alar Excision: A Personal Technique

Number 6 December 1991

P. Kunert, MD	509	Original Articles Structure and Construction: The System of Skin Flaps, with Invited Comment by Robert M. Pearl, MD
Yukihiro Kinoshita, MD, Tadao Kojima, MD, Yuichi Hirase, MD, Hyun Kim, MD, and Toshihiko Endo, MD	519	Subcutaneous Pedicle Hypothenar Island Flap
Antonio Landi, MD, Riccardo Luchetti, MD, Oliviero Soragni, MD, Giorgio De Santis, MD, and Gian Luigi Sacchetti, MD	527	The Distally Based Posterior Interosseous Island Flap for the Coverage of Skin Loss of the Hand

T. Lundeberg and M. Malm	537	Low-Power HeNe Laser Treatment of Venous Leg Ulcers
Minoru Ueda, DDS, PhD, Koji Ebata, DDS, PhD, and Toshio Kaneda, DDS, PhD	540	In Vitro Fabrication of Bioartificial Mucosa for Reconstruction of Oral Mucosa: Basic Research and Clinical Application
John W. Pickering, PhD, E. Peter Walker, MB, ChB, FRACDS, FRACS, and Philip H. Butler, PhD	550	The Facial Distribution of Port Wine Stains on Patients Presenting for Laser Treatment
Debby A. Jennings, BA, Michael J. Morykwas, PhD, Anthony J. DeFranzo, MD, and Louis C. Argenta, MD	553	Analysis of Silicon in Human Breast and Capsular Tissue Surrounding Prostheses and Expanders
James M. Russavage, DMD, MD, Harvey Slater, MD, FACS, I. William Goldfarb, MD, FACS, and Eugene J. Hammell, MD	559	Penetration of Antibiotics Through Omiderm In Vitro and on Split-thickness Skin Grafts in Burn Patients
Shinichi Sasaki, DDS, Minoru Ueda, DDS, PhD, Toshio Kaneda, DDS, PhD, Shinsuke Sage, MD, PhD, and Mutsushi Matsuyama, MD, PhD	562	Inhibition of Wound Contraction by Papaverine: In Vitro Analysis with a Submucosal Tissue Model
Case Reports		
James Apesos, MD, FACS, and Gregg Anigian, MD	570	Reconstruction of Penile and Scrotal Lymphedema
Roger K. Khouri, MD, and Joseph Upton, MD	574	Bilateral Lower Limb Salvage with Free Flaps in a Patient with Sickle Cell Ulcers
Bernard L. Markowitz, MD, Thomas Satterberg, MD, Thomas Calcaterra, MD, Jay Orringer, MD, Steven Cohen, MD, Fernando Burstein, MD, and William Shaw, MD	577	The Deep Inferior Epigastric Rectus Abdominus Muscle and Myocutaneous Free Tissue Transfer: Further Applications for Head and Neck Reconstruction
P. Benmeir, A. Neuman, A. Weinberg, E. Sucher, Z. Weshler, S. Lusthaus, M. Rotem, A. Eldad, and M. R. Wexler	583	Giant Melanoma of the Inner Thigh: A Homeopathic Life-threatening Negligence
Letters to the Editor		
John Gibney, MD	586	Re: Clinical Experience with Immediate Breast Reconstruction Using Tissue Expansion or Transverse Rectus Abdominis Musculocutaneous Flaps
Arthur Dean Jabs, MD, and Norman E. Hugo, MD	586	Reply
Book Critiques		
Lars M. Vistnes, MD	589	<i>Ptosis, Fourth Edition</i> , by Michael Callahan, MD, and Crowell Beard, MD

Lars M. Vistnes, MD	589 <i>Surgical Anatomy of the Nose</i> , by M. Eugene Tardy, Jr, MD
Wesley Hicks, Jr, DDS, MD	589 <i>Flaps in Head and Neck Surgery</i> , by John Conley, MD, and Carl Patow, MD
Linda M. Waters, MD	590 <i>Breast Cancer: Conservative and Reconstructive Surgery</i> , edited by Heinz H. Bohmert, MD, Henry Patrick Leis, Jr, MD, and Ian T. Jackson, MD
George W. Commons, MD	590 <i>Lipoplasty: The Theory and Practice of Blunt Section Lipectomy, Second Edition</i> , edited by Gregory P. Hetter, MD
Stanley A. Klatsky, MD, PA	594 <i>Cosmetic Blepharoplasty</i> , by Steven L. Bosniak, MD, FACS
	Indexes to Volume 27
	596 Author Index
	598 Subject Index

